

CLAIMS

WHAT IS CLAIMED IS:

1. A threaded fastener, comprising:
a shank having a head end and a lead end;
a head at said head end;
a thread disposed about said shank, said thread having an outer edge, a drive flank facing said lead end and a pressure flank facing said head end;
and
a series of depressions in said pressure flank along at least a portion of a length of said thread.
2. The threaded fastener of claim 1, said depressions formed in said pressure flank along substantially the length of said thread from said lead end to said head.
3. The threaded fastener of claim 2, said depressions extending from said shank to said outer edge of said thread.
4. The threaded fastener of claim 2, said depressions extending inwardly along said pressure flank from said outer edge of said thread only part of a width of said pressure flank between said shank and said outer edge of said thread.
5. The threaded fastener of claim 1, said portion of said length of said thread disposed adjacent said head, and a further portion of said thread adjacent said lead end having no depressions therein.

6. The threaded fastener of claim 5, said depressions extending from said shank to said outer edge of said thread.

7. The threaded fastener of claim 5, said depressions extending inwardly along said pressure flank from said outer edge of said thread only part of a width of said pressure flank between said shank and said outer edge of said thread.

8. The threaded fastener of claim 1, said depressions extending from said shank to said outer edge of said thread.

9. The threaded fastener of claim 1, said depressions extending inwardly along said pressure flank from said outer edge of said thread only part of a width of said pressure flank between said shank and said outer edge of said thread.

10. The threaded fastener of claim 1, including a second thread disposed on said shank, said second thread being of a diameter less than a diameter of said first mentioned thread.

11. A threaded fastening system, comprising:
a male fastening member and a female fastening member adapted for threaded engagement with each other;
said male fastening member including;
a shank having a head end and a lead end;
a head at said head end;
a thread disposed about said shank, said thread having an outer edge, a drive flank facing said lead end and a pressure flank facing said head end; and

a series of depressions in said pressure flank along at least a portion of a length of said thread; and
said female fastening member adapted for receiving said male fastening member therein, said female fastening member including:
a body defining an aperture therethrough with at least one helical thread defined by said aperture adapted for engaging said thread of said male fastening member, and
said body having irregularities forming projections for engaging said depressions of said threads on said male fastening member.

12. The threaded fastening system of claim 11, said surface irregularities comprising a series of adjacent peaked projections projecting toward said lead end of said male threaded member positioned therein.

13. The threaded fastener of claim 11, said depressions formed in said pressure flank along substantially the length of said thread from said lead end to said head.

14. The threaded fastener of claim 11, said depressions extending from said shank to said outer edge of said thread.

15. The threaded fastener of claim 11, said depressions extending inwardly along said pressure flank from said outer edge of said thread only part of a width of said pressure flank between said shank and said outer edge of said thread.

16. The threaded fastening system of claim 11, said portion of said length of said thread disposed adjacent said head, and a further portion of said thread adjacent said lead end having no depressions therein.

17. The threaded fastener of claim 11, said irregularities comprising projections around a peripheral edge of said aperture.

18. The threaded fastening system of claim 17, said peripheral edge facing said head of said male threaded member positioned therein.

19. The threaded fastening system of claim 17, said peripheral edge facing said lead end of said male threaded member positioned therein.

20. The threaded fastening system of claim 11, said female fastening member comprising a sheet metal nut having a body forming a dome, and said projections comprising a crown projecting outwardly from said dome.

21. A threaded fastening system, comprising:
a male fastening member and a female fastening member adapted for threaded engagement with each other;
said male fastening member including;
a shank having a head end and a lead end;
a head at said head end;
a thread disposed about said shank, said thread having an outer edge, a drive flank facing said lead end and a pressure flank facing said head end; and
a series of depressions in said pressure flank along at least a portion of a length of said thread adjacent said head; and
said female fastening member being a sheet metal single helix nut adapted for receiving said male fastening member therein, said female fastening member including;

a body shaped as a dome defining an aperture therethrough, with a single helix thread defined by said aperture adapted for engaging said thread of said male fastening member, and

a crown projecting outwardly from said dome, said crown including peaked projections for engaging said depressions of said threads on said male fastening member.

22. The threaded fastening system of claim 21, said depressions extending from said shank to said outer edge of said thread.

23. The threaded fastener of claim 21, said depressions extending inwardly along said pressure flank from said outer edge of said thread only part of a width of said pressure flank between said shank and said outer edge of said thread.